

C <u>CM</u> PLETE IF KNOWN							
Application Number	894,281						
Confirmation Number	5537						
Filing Date	June 27, 2001						
First Named Inventor	Kenneth H. Abbott						
Group Art Unit	2143						
Examiner Name	pavida-Wiley Tadesse Haily						
Attorney Docket No.	294438020US3						

					U	J.S. PATENT DOCUMENTS	·		
Examiner Initials*	Cite No.			ode	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines Where Relevant Passage Relevant Figures Appea	s or	
							R	ECEIVED	
-								NOV 1 2 2003	
							Tecl	nnology Center 2100)
									-
						DEION DATENT DOCUMENTS			
Examiner Initials*	Cite No.	Fore	eign Patent o	Kinc		Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
			ОТНЕ	R PRIC	OR AR	T-NON PATENT LITERATURE D	OCUMENTS		
Examiner Initials*	Cite No.	(b				in CAPITAL LETTERS), title of the article symposium, catalog, etc.), date, page(s), and/or country where published.			Т
TH		Bacon, J., et al., "Using Events to Build Distributed Applications," University of Cambridge, 1996, 8 pages http://citeseer.nj.nec.com/context/121546/72159							
TH						able computing and the remen 1998, pp. 118-124	nbrance agent	," BT Technology	
TH		Schmi Works 1998,	idt, A., et shop on Ir 10 pages	al., "Th iteractiv	ere is ve Ap _l	more to context than location, plications of Mobile Computing hmidt98there.html			
TH		Total I	Mobility,"	Univers	sity of	bining Location and Data Man Cambridge, England, 1996, 12 ntext/931687/334875		Environment for	

EXAMINER		DATE CONSIDERED
	Tadesse Haile	2/17/04
*EXAMINER:	Initial if reference considered, whether or not criteria is in conformation in considered. Include copy of this form with next communication to	nance with MPEP 609. Draw line through citation if not in conformance and not o application(s).

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

JAN 28 7000 CA

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified) (Use several sheets if necessary)

COMPLETE IF KNOWN								
Application Number	09/894,281	Conf. No. 5537						
Filing Date	June 27, 2001							
First Named Inventor	Kenneth H. Abbott							
Group Art Unit	2152							
Examiner Name	Unknown Tade	sse Hailu						
Attorney Docket No.	294438020US3							

453/43/4D-555	U.S. Patent or Application	U.S. PATENT DOCUME	Date of Publication or	Pages, Columns, Lines,
EXAMINER INITIALS	NUMBER Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document	Where Relevant Passages or Relevant Figures Appear
41	4,916,441	Gombrich	4/10/90	-
137	5,032,083	Friedman	7/16/91	
	5,201,034	Matsuura et al.	4/6/93	
	5,208,449	Eastman et al.	5/4/93	-
	5,214,757	Mauney et al.	5/25/93	
1 1	5,227,614	Danielson et al.	7/13/93	
	5,335,276	Thompson et al.	8/2/94	
	5,416,730	Lookofsky	5/16/95	
	5,470,233	Fruchterman et al.	11/28/95	
	5,493,692	Theimer et al.	2/20/96	RECEIVED
	5,544,321	Theimer et al.	8/6/96	
1	5,555,376	Theimer et al.	9/10/96	JAN 2 9 2003
	5,559,520	Barzegar et al.	9/24/96	
	5,568,645	Morris et al.	10/22/96	phnology Center 2100
	5,601,435	Quy	2/11/97	
	5,603,054	Theimer et al.	2/11/97	
	5,611,050	Theimer et al.	3/11/97	
	5,642,303	Small et al.	6/24/97	
	5,646,629	Loomis et al.	7/8/97	
	5,719,744	Jenkins et al.	2/17/98	
	5,726,660	Purdy et al.	3/10/98	
	5,751,260	Nappi et al.	5/12/98	
	5,781,913	Felsenstein et al.	7/14/98	
	5,790,974	Tognazzini	8/4/98	
	5,798,733	Ethridge	8/25/98	
	5,812,865	Theimer et al.	9/22/98	
	5,873,070	Bunte et al.	2/16/99	
	5,878,274	Kono et al.	3/2/99	
	5,902,347	Backman et al.	5/11/99	
	5,910,799	Carpenter et al.	6/8/99	
	5,938,721	Dussell et al.	8/17/99	
	5,948,041	Abo et al.	9/7/99	
	5,959,611	Smailagic et al.	9/28/99	
	5,991,687	Hale et al.	11/23/99	
	6,014,638	Burge et al.	1/11/00	
	6,047,301	Bjorklund et al.	4/4/00	
	6,064,943	Clark, Jr. et al.	5/16/00	
	6,108,197	Janik	8/22/00	
1	6,127,990	Zwern	8/3/00	

EXAMINER	
-	Tedesse Haule

DATE CONSIDERED

^{*} EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Sheet

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	AFFI C
E PEO 1440 O.A. P.C. IV	

Form PTO-1449 (Modified)

(Use several sheets if necessary) 2 of

COMPLETE IF KNOWN								
Application Number	09/894,281	Conf. No. 5537						
Filing Date	June 27, 2001							
First Named Inventor	Kenneth H. Abbott							
Group Art Unit	2152	2152						
Examiner Name	Whown Tade	sse Harlu						
Attorney Docket No.	294438020US3	-						

		U.S. PATENT DOCUME	NTS	
*EXAMINER	U.S. Patent or Application	Name of Patentee or Applicant	Date of Publication or Filing Date	Pages, Columns, Lines, Where Relevant Passages or
INITIALS	NUMBER Kind Cod (if known		Filing Date of Cited Document 11/28/00 11/28/00 11/28/00 RECEIVED 11/28/00 JAN 8 9 2003	
TH	Patent Application No. 09/724,777	Abbott et al.	11/28/00	
	Patent Application No. 09/724,799	Abbott et al.	11/28/00	
	Patent Application No. 09/724,892	Abbott et al.	11/28/00	BECEIVED
	Patent Application No. 09/724,893	Abbott et al.	11/28/00	}
	Patent Application No.	Abbott et al.	11/28/00	JAN 8 9 2003 —
	09/724,902	Abbott et al.		echnelegy Senter 2109
	Patent Application No. 09/724,932	Abbott et al.	11/28/00	cometog, ocutor 4 100
$\overline{}$	Patent Application No. 09/724,949	Abbott et al.	11/28/00	

	FOREIGN PATENT DOCUMENTS									
*EXAMINER INITIALS	Office	Vind Code		Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т				
TH	EPO	EP 0823 813A2	Kopin Corporation	2/11/98						
	JPO	05260188	Matsushita Electric Ind. Co. Ltd.	10/8/93	Abstract Only					
	JPO	09091112	Toshiba Corp.	4/4/97	Abstract Only					
	PCT	WO 90/08361	The Scott Fetzer Company	7/26/90		\prod				
	PCT	WO 97/03434	Virtual I/O, Inc.	1/30/97						

	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.	Т
TH	"'Affective Understanding:' Modeling and Responding to User Affect," http://www.media.mit.edu/affect/AC_research/understanding.html, pp. 1-3 [Accessed 2 Oct 1998]. "Alps GlidePoint," http://www.alps.com/p17.html, p. 1 [Accessed 2 Oct 1998].	
	"GyroPoint Technology," http://www.gyration.com/html/gyropoint.html, pp. 1-3 [Accessed 2 Oct 1998].	+-
	"Haptics," http://www.ai.mit.edu/projects/handarm-haptics/haptics.html, pp. 1-2 [Accessed 2 Oct 1998].	
	"Research Areas in Affective Computing," http://www.media.mit.edu/affect/, p. 1 [Accessed 2 Oct 1998]	
	"Research on Affective Pattern Recognition and Modeling," http://www.media.mit.edu/affect/AC_research/recognizing.html, pp. 1-4 [Accessed 2 Oct 1998].	
	"Research on Sensing Human Affect," http://www.media.mit.edu/affect/AC_research/sensing.html, pp. 1-5 [Accessed 2 Oct 1998].	

EXAMINER			DA	TE CONS	SIDE	RED								
Taderse	Hal			2/10/	04	l								
* EXAMINER:	Initial if reference considered, whether or not							Draw	line	through	citation	if	not	in
	conformance and not considered. Include copy of the	his form v	with ne	ext communic	ation t	to applic	ant(s).							

				_
JAN	2	8	2003	C24

INFORMATION DISCLOSURE STATEMENT BY APPLICANT PADEMARK OF

Form PTO-1449 (Modified) (Use several sheets if necessary)

COMPLETE IF KNOWN				
Application Number	09/894,281	Conf. No.	5537	
Filing Date	June 27, 2001			
First Named Inventor	Kenneth H. Abbott			
Group Art Unit	2152			
Examiner Name	Unknown			
Attorney Docket No.	294438020US3			

Sheet	3 of 4 Attorney Docket No. 294438020US3	
	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.	
TH	"Smart Rooms," http://vismod.www.media.mit.edu/vismod/demos/smartroom/, pp. 1-3 [Accessed 2 Oct 1998].	
	"SmartDesk Home Page," http://vismod.www.media.mit.edu/vismod/demos/smartdesk/, pp. 1-4 [Accessed 2 Oct 1998].	
	"The MIT Wearable Computing Web Page," http://wearables.www.media.mit.edu/projects/wearables/, pp. 1-3 [Accessed 2 Oct 1998].	
	"Wearable Computer Systems for Affective Computing," http://www.media.mit.edu/affect/AC_research/wearables.html, pp. 1-5 [Accessed 2 Oct 1998]. Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 rd International Symposium on Wearable	
Computers, San Francisco, California, October 18-19, 1999		
	Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996 JAN 2 9 2003	
	Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," IEEE, pp. 57-64, January 1999.	
	Bowskill, J. et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communications Communication Communication Communication Computers," San Francisco, California, October 18-19 1999	
	Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Finger et al., "Rapid Design and Manufacture of Wearable Computers," Communication of the ACM, Vol. 39, No. 2, February 1996, pp. 63-68	
	Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).	
	Kirsch, Dana, "The Sentic Mouse: A tool for measuring emotional valence,"	
	http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html, pp. 1-2 [Accessed 2 Oct 1998].	
	Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998	
	Kortuem, Gerd, "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 rd International Symposium on Wearable Computers," San Francisco, California, October 18-19, 1999	
	Lashkari, Yezdi et al., "Collaborative Interface Agents," Proccedings of AAAI '94 Conference, Seattle, Washington, August 1994	
	Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Leonhardi, Alexander et al., "Virtual Information Towers – A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment, 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," Proceedings of the Annual Artificial Intelligence Systems in Government Conference, IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.	
	Maes, Pattie, "Agents That Reduce Work and Information Overload," Communications of the ACM, Vol. 37, No. 7, July 1994	
	Mann, Steve, "'Smart Clothing': Wearable Multimedia Computing and 'Personal Imaging' to Restore the Technological Balance Between People and Their Environments", ACM Multimedia, November 1996, pp. 163-174	
	Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," <i>PC Magazine</i> , pp. 192-193, June 1998.	
	Oakes, Chris, "The Truman Show Realized?," http://www.wired.com/news/news/technology/story/15745.html, pp. 1-4 [Accessed 21 Oct 1998].	
	Picard, R.W. and Healey, J., "Affective Wearables," Personal Technologies vol. 1: 231-240, MIT Media Laboratory (1997).	
	Rekimoto et al., "The World through the Computer: Computer Augmented Interaction with Real World Environments, " ACM, November 1995, pp. 29-36	
	Rhodes, Bradley, "WIMP Interface Considered Fatal," http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html, pp. 1-3 [Accessed 2 Oct 1998].	
	Rhodes, Bradley, J. "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the First International Symposium on Wearable Computers (ISWC '97), Cambridge, MA, October 13-14, 1997	
	Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997.	
V.	Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999	

EXAMINER	DATE CONSIDERED
Tadesse Harlin	2/10/04
* EXAMINER: Initial if reference considered, whether or not criteria	is in conformance with MPEP 609. Draw line through citation if not in

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary)

COMPLETE IF KNOWN			
Application Number	09/894,281	Conf. No. 5537	
Filing Date	June 27, 2001		
First Named Inventor	Kenneth H. Abbott		
Group Art Unit	2152		
Examiner Name	Unknown		
Attorney Docket No.	294438020US3		

Sheet	4	of	4	Attorney Docket No.	294438020US3	
	ОТНЕ	ER PRIOR ART	Γ-NON PATI	ENT LITERATURI	E DOCUMENTS	
EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.					
74	Smailagic et al., "Matching interface design with user task: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25					
74	Smailagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999					
114	Starner et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998					П
714	Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," <i>IEEE</i> , Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.					
TH	Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999					

RECEIVED

JAN 2 9 2003

Technology Center 2100

EXAMINER

Jodene Hauth

2/10/04

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant(s).